

**What is claimed is:**

**[Claim 1]** A method for transfilling gas canisters on-site comprising:  
transporting a transfilling station to a desired transfilling site;  
attaching gas canisters to said transfilling station;  
inspecting and evacuating said gas canisters;  
vaporizing and compressing a gas and directing it into said gas canisters;  
disconnecting said gas canisters; and  
transporting said transfilling station from said transfilling site.

**[Claim 2]** The method of transfilling gas canisters on-site of claim 1  
wherein said gas is medical oxygen.

**[Claim 3]** An mobile gas canister transfilling station comprising:  
a mobile chassis;  
a substantially enclosed space mounted on said mobile chassis;  
at least one door grating access to said enclosed space from outside of said  
enclosed space;  
at least one ramp for facilitating the transport of gas canisters in and out of  
said enclosed space;  
at least one manifold shaped to receive transfilling canisters attached to said  
transfilling station;  
at least one heat exchanger operatively connected to said manifolds;  
at least one compressor operatively connected to said heat exchanger.

**[Claim 4]** The mobile gas canister transfilling station of claim 3 further  
comprising a hitching mechanism for attaching to a towing vehicle.

**[Claim 5]** The mobile gas canister transfilling station of claim 3 wherein  
said floor is reinforced to support increased weight.

**[Claim 6]** The mobile gas canister transfilling station of claim 3 further  
comprising at least 48 manifolds that conform to tank "E" specifications and at  
least 4 manifolds that conform to tank "H" specifications.

